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37<sup>00</sup> 203 CP  
#19/Supplemental 268  
Amold D. Appendix  
R. Morgan  
6/10/94

780.29643X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas J. CAMPANA, JR. et al

Serial No.: 07/702,939

Filed: May 20, 1991

For: ELECTRONIC MAIL SYSTEM WITH RF  
COMMUNICATIONS TO MOBILE PROCESSORS

Group: 2608

Examiner: G. Oehling

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GROUP 260

**THIRD SUPPLEMENTAL AMENDMENT**

Honorable Commissioner of  
Patents and Trademarks  
Washington, D. C. 20231

May 23, 1994

Sir:

This is supplemental to the Second Supplemental Amendment  
filed May 13, 1994.

**IN THE SPECIFICATION:**

Please amend the specification as follows:

Page i (before Page 1), line 12, change "10-14" to  
--10-12--.

**In the Attached Appendix:** Delete the original 15 pages  
of the Appendix as filed on May 20, 1991 and insert a  
substitute Appendix which is attached to this Third  
Supplemental Amendment consisting of a cover page and numbered  
pages 1-12.

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**IN THE CLAIMS:**

Please add new claim 176 as follows:

--176. A method of transferring information from a RF receiver to a processor under control of a program stored by the processor comprising:

transmitting the information with a RF transmitter to the RF receiver;

the RF receiver signalling the processor on a transmission medium of the processor used for transmission of information by the processor that the received information is stored within memory of the receiver;

controlling the transfer of the stored information from the memory of the receiver to a memory of the processor on the transmission medium with the program; and

processing the information in the memory of the processor with an application program stored in the memory of the processor.--

**REMARKS**

The Applicants are presenting claim 176 herein which is identical to claim 81 of Serial No. 07/702,319 and claim 86 of Serial No. 07/702,938 for the purpose of having the Examiner consider the possibility of double patenting between claims 78, 79 and 81-89 in Serial No. 07/702,319 and claims 68, 69 and 86 in Serial No. 07/702,938.

If the Examiner finds the subject matter of at least claim 176 to be present a situation requiring restriction, it is requested that the Examiner indicate in this application on the record to that effect and in Serial Nos. 07/702,319 and 07/702,938, respectively, with respect to claims 78, 79 and 81-89 and 68, 69 and 86. If restriction is required in this application and in Serial Nos. 07/702,319 and 07/702,938 regarding at least the subject matter of claim 176, Applicants will cancel the subject matter so restricted from all applications now pending and file a divisional application.

Newly submitted claim 176 covers the operation of the receiver 119 transferring originated information to the destination processors, as illustrated in Fig. 10, as described on pages 46 and 47 of the specification and pages 1-9 of the Appendix. Claims 160 and 161, which are respectively dependent on claims 137 and 157, also recite aspects of the transfer of the other originated information for use with application programs.

The Examiner, for purposes of determining the patentability of claim 176, is referred to the description of the prior art including the paging receiver(s) 119 and peripheral device 119' in Figs. 2 and 7 as described in the specification. Further, a description of a connection of a paging receiver to a peripheral device as prior art is found in the United States Patents and pending applications identified on page 9 of the specification.

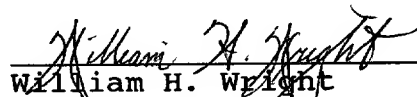
The substitute Appendix contains numbered pages which are consistent with the description of the page numbers of the Appendix on page i of the specification as amended. The copyright notices on pages 4 and 10 of the original Appendix have been deleted from pages 4 and 10 of the substitute Appendix to be consistent with the copyright notice which precedes page 1 of the original and substitute Appendix. The description of the Appendix on page i of the specification has been amended to refer to pages 10-12 as being the program for controlling the operation of the interface switch. Deleted pages 13-14 were not used as the code for controlling the interface switch.

The inventors will file a Supplemental Declaration affirming subject matter of this Amendment as being part of their invention as filed.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, Deposit Account No. 01-2135 (780.29767X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

HENDERSON & STURM

  
\_\_\_\_\_  
William H. Wright  
Registration No. 26,424

WHW:dlh

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define ATT\_EMAIL\_FILE  
define DELIMITER

"TFNCRN.TMP"  
"End of Telefind Network Message\r"

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```

#include <string.h>
#include <time.h>
#include <stdio.h>
#include <dos.h>
#include "safer1.h"

void main(void)
{
    FILE *infile,*outfile;
    char buffer[81],chr,timestr[6],datestr[9];
    char msg_num[4];
    int msg_num_opt = 0;
    char *ptr;
    int x,day,month,line=1,attmail=0;
    time_t t;

    if ((infile = fopen(ATT_EMAIL_FILE,"rt")) == NULL)
    {
        printf("%s does not exist\n",ATT_EMAIL_FILE);
        exit(0);
    }
    if ((outfile = fopen("tfmbox.888","wt")) == NULL)
    {
        printf("Can't open TFMBOX.888\n");
        exit(0);
    }

    for(;;)
    {
        /* get characters from .tmp file */
        x = 0;
        do
        {
            chr = fgetc(infile);
            if (feof(infile))
            {
                fclose(infile);
                fclose(outfile);
                exit(0);
            }
            buffer[x++] = chr;
        }
        /* until end of line */
        while (chr != '\n' && x != 80);

        buffer[x] = '\0'; /* terminate it */

        if (line == 1)
        {
            ptr = strchr(buffer,');');
            if (ptr-buffer == 2) /* use 3rd character */
            {
                ascanf(buffer,"%i()",msg_num);
                msg_num_opt = 1;
                ptr++;
            }
            else
                ptr = buffer;

            if (*ptr == ':' && *(ptr+1) == '0')
                attmail = 1;
        }

        if (attmail)
        {
            switch(line)

```

```

case 1:
/*      datestr = mm/dd, timestr = hh:mm      */
secanf(datestr,"%d/%d",&month,&day);
/*      get year from pc      */

t = time(NULL);
fprintf(outfile,"Date: %s",ctime(&t));
break;

case 2:
fprintf(outfile,"From: %s",buffer);
break;

case 3:
fprintf(outfile,"Subject: %s",buffer);
fprintf(outfile,"To: <Name here>\n");
if (msg_num_opt)
    fprintf(outfile,"Message #%s\n",msg_num);
break;

default:
fprintf(outfile,"%s",buffer);
break;
}

}
else
{
if (line == 1)
{
t = time(NULL);
fprintf(outfile,"Date: %s",ctime(&t));
fprintf(outfile,"From: tmbbox\n");
fprintf(outfile,"Subject: Telefind Network Message\n");
fprintf(outfile,"To: <Name here>\n");
if (msg_num_opt)
{
fprintf(outfile,"Message #%s\n",msg_num);
fprintf(outfile,"%s",buffer+3);
}
else
fprintf(outfile,"%s",buffer);
}
else
fprintf(outfile,"%s",buffer);
}

}
if (strcmp(buffer,DELIMITER) == 0)
{
msg_num_opt = line = attmail = 0;
}

line ++;

```

TELEFIND CORP.

```
/* Copyright: 1990 TELEFIND CORP.
   Author: MICHAEL P. PONSCHKE, SR.
           03/13/91

   Program: SAFARI3.C
   Purpose: TO EXTRACT MESSAGES FROM A TELEFIND PAGER
           VIA IN RS-232 PORT ON A PC

   Compiler: TURBO C++ 1.0
   Memory Model: SMALL
*/

#include <dos.h>
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
#include "safari.h"

/* CONSTANTS */

#define DTR_HI 0x01
#define DTR_LO 0xfe
#define RTS_HI 0x02
#define RTS_LO 0xfd
#define DSR_HI 0x20
#define RING_IN 0x40
#define CD_HI 0x80
#define FIVE_TICK 5
#define FIVE_SEC 96
#define TWELVE_SEC 220
#define LOG_FILE "LOG"
#define INTRO_STRING "Please standby, retrieving messages ..."

/* FUNCTION PROTOTYPES */

int beep(void);
void busyoff(void);
void busyon(void);
void dleoff(void);
void dleon(void);
int link(void);
void print_message(void);
int rxdata(void);
int strobe(void);
int strobe_data(void);
unsigned ticks(void);
int timeout(unsigned start, int delay);

/* VARIABLE DECLARATIONS */

char pager_buffer[511];
int com_base, control_reg, status_reg, log_flag;
FILE *log_file;

void main(int num_arg, char **args)
{
    unsigned start;
    int restart, x;

    com_base = 0x3f8; /* use com 1 unless command line denotes otherwise */

    /* get command line arguments */
}
```



[illegible]

```

if (num_arg > 1)
{
    for (x=1; x<num_arg; x++)
    {
        if (strcmp(args[x], "-i") == 0)
            com_base = 0x3f8;
        if (strcmp(args[x], "-2") == 0)
            com_base = 0x2f8;
        if (strcmp(args[x], "-f") == 0)
            log_flag = 1;
    }
}

if (log_flag)
    if ((log_file = fopen(LOG_FILE, "at")) == NULL)
        printf("Unable to open LOG\n");

control_reg = com_base + 4;
status_reg = com_base + 6;

clrscr();

if (link() == 0) /* is pager attached ?
{
    printf("Please attach Message Receiver \n");
    exit(0);
}

busyon(); /* start busy at logic high

if (log_flag)
    fprintf(log_file, "Initiating process \n");
printf("%e\n", INTRO_STRING);
discon(); /* push display button */
sleep(2);
do
{
    start = ticks();
    restart = 0;
    do
    {
        if (beep())
        {
            print_message();
            restart = 1;
            start += TWELVE_SEC;
            break;
        }
    }
    /* hold display button for 12 seconds */
    while(1 timeout(start, TWELVE_SEC));
}
while(restart);

discoff(); /* release the display button */
if (log_flag)
{
    fprintf(log_file, "Process Complete \n");
}

```

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```

        fclose(log_file);
    }

    /*      pager beep      */
    int beep(void)
    {
        /*      accesses the RI line via the Status Register
            which is activated when the pager beeps      */
        unsigned start;

        start = ticks();
        while ( ! timeout(start,FIVE_TICK))
        {
            if ((inportb(status_reg) & RING_IN) == 0 )
                return(1);
        }
        return(0);
    }

    /*      busyon & busyoff toggle the DTR line via the
        Control Register to strobe in data from the pager      */
    void busyoff(void)
    {
        outportb(control_reg,inportb(control_reg) | DTR_HI);
    }

    void busyon(void)
    {
        outportb(control_reg,inportb(control_reg) & DTR_LO);
    }

    /*      dison & disoff toggle the RTS line via the Control Register
        to simulate the pressing of the display button on the pager      */
    void dison(void)
    {
        outportb(control_reg,inportb(control_reg) | RTS_HI);
    }

    void disoff(void)
    {
        outportb(control_reg,inportb(control_reg) & RTS_LO);
    }

    int link(void)
    {
        /*      accesses the CD line via the Status Register
            which is logic high when pager is connected      */
        if ((inportb(status_reg) & CD_HI) == 0)
            return(0);
        return(1);
    }

    void print_message(void)
    {
        FILE *file;
        unsigned start;
        int x,y=0,z=0,chr,bit;
    }

```

76240 6660 740

```

busyoff(); /* ready to accept pager data */
/* read until end code received */
while (chr != 3)
{
    chr = 0;
    start = ticks();

    /* wait for start bit */
    do
    {
        bit = strobe();
        if (bit == 0)
            break;
    }
    while (!timeout(start, FIVE_SEC));

    if (bit)
    {
        if (log_flag)
            fprintf(log_file, "Transmission Error, recheck connection\n");
        disoff();
        exit(0);
    }

    /* strobe out 8 bit data */
    for (x=1; x<9; x++)
    {
        chr <<= 1;
        chr |= bit = strobe_data();
    }

    /* clear out stop bits */
    for (x=1; x<3; x++)
    {
        strobe_data();
    }

    /* extract start and end codes from message
    pager signon      02, 19, 00, 33
    pager signoff     03 */

    if ((y > 3) && (chr != 3))
    {
        /* pager characters 96 and 97 are converted to
        0xFA and 0xFB to display on pager */
        if (chr == 0xFA) /* convert to CR */
            chr = '\n';
        if (chr == 0xFB) /* convert to TAB */
            chr = 0x09;

        pager_buffer[z] = chr;
        z++;
    }
    y++;
}

pager_buffer[z] = '\0'; /* null terminate */
busyon(); /* finished receiving data */

```

```

if (log_flag)
    fprintf(log_file, "%s\n", pager_buffer);

if (((file = fopen(ATT_EMAIL_FILE, "at")) == NULL)
    fprintf(log_file, "Unable to open TFMBOX.TMP\n"));
else
{
    fprintf(file, "%s\n", pager_buffer);
    fprintf(file, "%s", DELIMITER);
    fclose(file);
}

start = ticks();
while(timeout(start, FIVE_SEC))
{
    /* wait for erase beep */
    if (beep()) break;
}
sleep(1); /* wait one more second */

int rdata(void)
{
    /* accesses the DSR line via the Status Register
       which returns the bits value */
    if ((inportb(status_reg) & DSR_HI)
        return(0);
    return(1);
}

int strobe(void)
{
    int bit;

    busyon();
    delay(1);
    busyoff();
    delay(4);
    bit = rdata();
    return(bit);
}

int strobe_data(void)
{
    int bit;

    busyon();
    delay(2);
    bit = rdata();
    busyoff();
    delay(1);
    return(bit);
}

unsigned ticks(void)
{
    /* returns timer ticks (approx. 18.2/sec)
       using only lower registers */

    union REGS in, out;

    in.x.ax = 0x0;
    int86(0x1a, &in, &out);
    return(out.x.dh);
}

```

```

    }
    int timeout(unsigned start, int delay)
    {
        /*      used for timing events of up to approx. 1 hour.
           used in conjunction w/ticks()      */

        unsigned current;

        current = ticks();
        if (start <= current && (start + delay) < current)
            return(1);
        if (start > current && (start - 65535 + delay) < current)
            return(1);
        return(0);
    }

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```
/* mark the end of the command line you built, so you can add ending
   delimiter */
sys_command[i] = NULL;
/* add the ending quote for the users message so shell wont
   interepert special characters */
strcat(sys_command, "\\");
/* execute command you built */
system(sys_command);

printf("sending message: %s\n", sys_command);

}
else {
    if(strlen(mesg) == 0 ) {
        return(0);
    }
    /* print error for invalid message length */
    printf("telemail error: invalid message length: %s\n", mesg);
    return(0);
}

return(i);
}

/*****
 *
 * function: getline(hold-buffer, input-file-pointer)
 * arguments: pointer to buffer where line read will be heald,
 *             file pointer to input file
 * description: reads 1 line of text from the input line and stores the
 *             line read into the buffer passed.
 * returns: -1 if EOF or number of characters read in
 *
 *****/
getline(buff, fp)
char *buff;
FILE *fp;
{
    int ch, cnt;

    /* keep on reading characetr from file so long as end of file not
       reached or char is the end of line */
    for(cnt = 0; ((ch = fgetc(fp)) != EOF) && ch != '\n'; cnt++) {
        /* MOD BY OT 11/29/90 convert tab to space */
        /* convert tabs to single space */
        if(ch == 9) {
            ch = ' ';
        }
        /* MOD BY OT 11/29/90 dont allow control char */
        /* only load in ascii characters */
        if(isprint(ch) != 0) {
            buff[cnt] = ch;
        }
        else {
            /* turn control characters to spaces */
            buff[cnt] = ' ';
        }
    }

    /* mark the end of the buffer you built */
    buff[cnt] = '\0';
}
```

```

/*****
*
*   function: send_mesg(message-pointer)
*   arguments: pointer to text message(capcode,text) to be sent
*   description: takes passed message text makes sure the first 8 positions
*                are numeric(capcode). it builds and executes the network
*                send command(netsend.sh) to sedn the message passed.
*   returns: 0 if not sent otherwise the number of characters sent out
*
*****/
int send_mesg(mesg)
char *mesg;
{
    char sys_command[700];
    int i;
    int ch;
    char *mesg_ptr;

    /* left justify the message passed to remove leading spaces */
    strljust(mesg, 512);
    /* trim off trailing blank spaces from the message */
    strtrim(mesg);

    /* make sure you have a capcode at least */
    if(strlen(mesg) > 8) {

        /* start to build the command to be executed to send message retrieved
           from the mail box */
        strcpy(sys_command, "netsend.sh ");

        /* loop while still more characters in the message */
        for(mesg_ptr = mesg, i = 11; *mesg_ptr != NULL; i++, mesg_ptr++) {

            /* make sure the first 8 positions of the message are numeric */
            if((i < 19) && (*mesg_ptr < '0' || *mesg_ptr > '9')) {
                printf("telemail error: invalid capcode: %s\n", mesg);
                return 0;
            }

            /* is the user didnt seperate capcode & message then insert a
               space into the command */
            if(i == 19 && *mesg_ptr != ' ') {
                sys_command[19] = ' ';
                i = 20;
            }

            /* enclose the users message with ' so shell wont interpret
               special characters */
            if(i == 20) {
                sys_command[20] = '\\';
                i = 21;
            }

            /* put the character from the message onto to the
               command to be executed */
            sys_command[i] = *mesg_ptr;
        }
    }
}

```

```

/* since your just starting clear the message area */
memset(mesg, NULL, MAXMSGLEN);

/* keep on geting lines from the file until you reach end of file */
while(getline(buff, fp) != -1) {

    /* every mail message start with the word "From " */
    if(strncmp(buff, "From ", 5) == 0) {
        /* set flag telling you are currently going thru mail header
           so you dont add it to the message */
        in_header = 1;
        /* call routine to the last message if any exists */
        send_mesg(mesg);
        continue;
    }

    /* a mail header end with the following string */
    if(strncmp(buff, "Content-Length:", 15) == 0) {
        /* turn off flag so you know you are no longer in mail
           message header */
        in_header = 0;
        /* clear the old message since this is a new one */
        memset(mesg, NULL, MAXMSGLEN);
        continue;
    }

    /* if the line you are now reading in not part of the mail header
       add it to the message */
    if(in_header == 0) {
        strljust(buff, 512);
        strtrim(buff);
        /* make sure you dont add more than the message length */
        if( (strlen(buff) + strlen(mesg)) < MAXMSGLEN) {
            strcat(mesg, " ");
            strcat(mesg, buff);
        }
    }
} /* end of read line while */

/* send the last message in the file */
send_mesg(mesg);
}

```